Amendments To The Claims

The listing of claims presented below will replace all prior versions, and listings, of claims in the application.

Listing of claims:

1. (**currently amended**) A method for processing data through a system for accessing and transmitting different data frames in a digital transmission network, wherein the system includes a user-network interface (UNI), which is used to connect to a user's network, a network-network interface (NNI), which is used to connect to ~~said~~ **the** digital transmission network to transfer data, a mapping/demapping device, a virtual interface device, which couples with the UNI and couples with the NNI via the mapping/demapping device, and a ~~control device~~ **data processing and dispatching device**, which couples with the virtual interface device to control ~~it~~ to access and transmit the data frames, ~~said~~ **the** method comprising the following steps:

~~the virtual interface device~~ classifying the data frames **by the virtual interface device**; ~~and~~

transmitting, via the data processing and dispatching device, the classified data frames from the virtual interface device to a processing device for processing;

~~the virtual interface device~~ **obtaining, by the virtual interface device, processed data frames via the data processing and dispatching device and**

outputting the **processed** data frames to ~~corresponding device interfaces~~ **the UNI or NNI**.

2. (**currently amended**) A method according to claim 1, wherein ~~**said control device includes a data processing and dispatching device, which couples with said virtual interface device;**~~ **the processing device includes** at least one of a virtual private device, a virtual bridge device and a **Resilient Packet Ring** ~~**RPR**~~ device~~**, which couples with said data processing and dispatching device; said method also comprises the step of the virtual bridge device switching the data frames**~~.

3. (**currently amended**) A method according to ~~**claim 2**~~ **claim 15**, further comprising the step of ~~**the virtual private device**~~ processing the data frames **by the virtual private device**.

4. (**currently amended**) A method according to claim 3, wherein the step of ~~**the virtual private device**~~ processing the data frames **by the virtual private device** comprises the following step: relaying and/or converging and/or ~~**deconverging**~~ **diverging** the data frames.

5. (**currently amended**) A method according to ~~**claim 2**~~ **claim 15**, **further comprising the step of** ~~**wherein the step of the virtual private device processing the data frames also comprises the following step: the RPR device**~~ processing the data frames **by the Resilient Packet Ring device**.

6. (**currently amended**) A method according to claim 5, wherein the step of ~~**the RPR device**~~ processing the data frames **by the Resilient Packet Ring device** comprises the following step: terminating sending and/or relaying and/or beginning to send the data frames.

7. (**currently amended**) A method according to claim 3, **further comprising the step of** ~~**wherein the step of the RPR device processing the data frames also comprises the following step: the RPR device**~~ processing the data frames **by the Resilient Packet Ring device**.

8. (**currently amended**) A method according to claim 7, wherein the step of ~~**the RPR device**~~ processing the data frames **by the Resilient Packet Ring device** comprises the following step: terminating sending and/or relaying and/or beginning to send the data frames.

9. (**currently amended**) A method according to ~~**claim 1**~~ **claim 2**, wherein ~~**said control device includes a data processing and dispatching device, which couples with said virtual interface device; at least one of a virtual private device, a virtual bridge device and a RPR device, which couples with said data processing and dispatching device; said method also comprises**~~ **further comprising** the step of ~~**the virtual private device**~~ processing the data frames **by the virtual private device**.

10. (**currently amended**) A method according to claim 9, wherein the step of ~~**the**~~

~~virtual private device~~ processing the data frames **by the virtual private device** comprises the following step: relaying and/or converging and/or ~~deconverging~~ **diverging** the data frames.

11. (**currently amended**) A method according to ~~claim 1~~ **claim 2**, wherein **further comprising** the step of ~~the virtual private device processing the data frames also comprises the following step: the RPR device~~ processing the data frames **by the Resilient Packet Ring device**.

12. (**currently amended**) A method according to claim 11, wherein the step of ~~the RPR device~~ processing the data frames **by the Resilient Packet Ring device** comprises the following step: terminating sending and/or relaying and/or beginning to send the data frames.

13. (**currently amended**) A method according to claim 9, wherein the step of the RPR device processing the data frames also comprises the following step: ~~the RPR device~~ processing the data frames **by the Resilient Packet Ring device**.

14. (**currently amended**) A method according to claim 13, wherein the step of ~~the RPR device~~ processing the data frames **by the Resilient Packet Ring device** comprises the following step: terminating sending and/or relaying and/or beginning to send the data frames.

15. (new) **A method according to claim 2, further comprising the step of switching the data frames by the virtual bridge device.**